Special Issue

Advances in Wireless Communication Technology in Oceanic Turbulence

Message from the Guest Editor

Underwater optical wireless communications (OWCs) are an innovative technology that can enable high-speed mobile transmission. The use of photonics underwater is restricted by the absorption, scattering and turbulence, and the intensity, polarization and phase of light can be destroyed by underwater environments. These effects can degrade the performances of underwater OWCs in an underwater medium. To overcome the negative effects of an underwater medium, various beams have been introduced into the studies of OWC, such as orbital angular moment (OAM), partially coherent beams and structured beams. Moreover, researchers are developing advanced techniques to enhance the performances of underwater OWC technologies, such as micro LEDs, VCSELs and photodetectors. This Special Issue will discuss the related technologies of underwater OWCs and cover a broad field of propagation, the scintillation index, BER and photonics technologies in underwater medium.

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Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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